Irina Gaynanova

irinagain.github.io July 17, 2025

Research interests

Statistical/machine learning, data integration, high-dimensional biomedical data, multivariate analysis, computational statistics, applications to multi-omics data and data from wearable devices (continuous glucose monitors, ambulatory blood pressure monitors, activity trackers).

Education

• Ph.D, Statistics	05/2015
Cornell University, Ithaca, NY	
Advisors: James Booth and Martin Wells	
• M.S., Statistics	05/2013
Cornell University, Ithaca, NY	
• Diploma with honors (M.S.), Applied Mathematics and Computer Science	06/2009
Lomonosov Moscow State University, Moscow, Russia	

Professional Positions

Associate Professor (by courtesy) Department of Statistics, University of Michigan	since 01/2025
• Associate Professor (with tenure) Department of Biostatistics, University of Michigan	since 09/2023
Adjunct Associate Professor Department of Statistics, Texas A&M University	since 09/2023
Associate Professor (with tenure) Department of Statistics, Texas A&M University	09/2021 - 08/2023
Assistant Professor Department of Statistics, Texas A&M University	07/2015 - 08/2021
• Senior Specialist Balancing Market Division, OJSC Trading System Administrator, Moscow, Russia	06/2009 - 07/2010
• Junior Statistician Census Division, AC Nielsen, Moscow, Russia	06/2008 - 05/2009

Awards and Honors

 University of Michigan Honored Instructor, Michigan Housing COPSS Emerging Leader Award IMS Thelma and Marvin Zelen Emerging Women Leaders in Data Science Award 	2025 2025 2025
• Elected member, International Statistical Institute	2024
NSF CAREER Award	2021
 Dr. Judith Edmiston Mentoring Award, College of Science, Texas A&M University 	2021
 DeBakey Executive Research Leadership Certification, Texas A&M University 	2021
 David P. Byar Young Investigator Award, ASA Biometrics Section 	2018
Cornelia Ye Outstanding Teaching Assistant Award, Cornell University	2014
EducationUSA Opportunity Award	2009
 Study Abroad Scholarship, Technical University of Munich, Germany 	2007

Competitive Travel Awards

IMS New Researchers Conference	2017
 NISS Writing Workshop for Junior Researchers 	2016
SAMSI LDHD Summer School Program	2013
Building Future Faculty Program, NC State University	2013
Diversity and Mentoring Program at JSM	2012

Publications and Submitted Manuscripts

Note on authorship: the sign * at the beginning of a paper indicates alphabetical order of authorships; the sign + indicates co-first authorships; $\underline{\text{underline}}$ denotes mentored student or post-doctoral associate; the sign \boxtimes denotes the corresponding author.

Submitted/Under Revision Manuscripts:

- 53. Qian L., Aurora R.N, Punjabi N. and **Gaynanova I.** (2025+) "Smooth tensor decomposition with application to ambulatory blood pressure monitoring data." Preprint available on arXiv:2507.1172.
- 52. Wang L., Ni Y. and Gaynanova I. (2025+) "Truncated Gaussian copula principal component analysis with application to pediatric acute lymphoblastic leukemia patients' gut microbiome." Preprint available on arXiv:2505.12483.
- 51. Kim R. and **Gaynanova I.**[⊠](2025+) "A sparse linear model for positive definite estimation of covariance matrices." Preprint available on arXiv:2503.09026.
- 50. Park J., Kok N. and **Gaynanova I.** (2025+) "Beyond fixed thresholds: optimizing summaries of wearable device data via piecewise linearization of quantile functions." Preprint available on arXiv:2501.11777.
- 49. <u>Sergazinov R.</u>, Taeb A. and **Gaynanova I.** (2025+) "A spectral method for multi-view subspace learning using the product of projections." Preprint available on arXiv:2410.19125.
- 48. <u>James C.</u>, <u>Yuan D.</u>, **Gaynanova I.** and Arroyo J. (2025+) "Learning Joint and Individual Structure in Network Data with Covariates." Preprint available on arXiv:2406.08776.
- 47. Choi J. Chung H.C., **Gaynanova I.** and Ni Y. (2025+) "Bayesian segmented Gaussian copula factor model for single-cell sequencing data." Preprint available on arXiv:2403.15983.

- 46. <u>Chung H.C.</u>, Ni Y. and **Gaynanova I.** (2025+) "Sparse semiparametric discriminant analysis for high-dimensional zero-inflated data." Preprint available on arXiv:2208.03734.
- 45. <u>Yuan D.</u>, <u>Zhang Y.</u>, Guo S., Wang W. and **Gaynanova I.** (2025+) "Exponential canonical correlation analysis with orthogonal variation." Preprint available on arXiv:2208.00048.

Peer-reviewed Publications:

- 44. <u>Coulter A. E.</u> and **Gaynanova I.** (2025) "fastfrechet: an R package for fast implementation of Frechet regression with distributional responses." *The Journal of Open Source Software*, Vol. 10, No. 109, 7925. Link: https://doi.org/10.21105/joss.07925
- 43. <u>Coulter A.</u>, Aurora R. N., Punjabi N. and **Gaynanova I.** (2025+) "Fast variable selection for distributional regression with application to continuous glucose monitoring data." *Annals of Applied Statistics*, accepted.
- 42. <u>Williamson W.</u>, Lee J.M. and **Gaynanova I.** (2025+) "A processing algorithm to address real-world data quality issues with continuous glucose monitoring data." *Journal of Diabetes Science and Technology,* ahead of print.

Link: https://doi.org/10.1177/19322968251319801

- 41. **Gaynanova I.** and Lee J. M. (2025) "When algorithms diverge: quantification of glycemic episodes from CGM data." *Diabetes Technology & Therapeutics*, Vol. 27, No. 6, 500-502. Link: https://doi.org/10.1089/dia.2024.0618
- 40. Chun E., Fernandes N. and Gaynanova I. (2024) "An update on the iglu software package for interpreting continuous glucose monitoring data." *Diabetes Technology & Therapeutics*, Vol. 26, No. 12, 939-950. Link: https://doi.org/10.1089/dia.2024.0154
- 39. Wang Z., Gaynanova I., Aravkin A. and Risk B. (2024) "Sparse Independent Component Analysis with an Application to Cortical Surface fMRI Data in Autism." *Journal of the American Statistical Association*, Vol. 119, No. 548, 2508-2520.

 Link: https://doi.org/10.1080/01621459.2024.2370593
- 38. Wang L., **Gaynanova I.** and Risk B. (2024) "singR: An R Package for Simultaneous Non-Gaussian Component Analysis for Data Integration" *The R Journal*, Vol. 15, No. 4, 69-83. Link: https://doi.org/10.32614/RJ-2023-084
- 37. **Gaynanova I.** and <u>Sergazinov R.</u> (2024) "Comments on "Data Integration Via Analysis of Subspaces (DI-VAS)." *TEST*, Vol 33, 675-682.

Link: https://doi.org/10.1007/s11749-024-00936-8

- 36. <u>Sergazinov R. Marian B.</u>, <u>Chun E.</u>, <u>Rogovchenko V.</u>, <u>Fernandes N.</u>, <u>Kasman N.</u> and **Gaynanova I.** (2024) "GlucoBench: Curated List of Continuous Glucose Monitoring datasets with Prediction Benchmarks." *International Conference on Learning Representations (ICLR)*. Link: https://openreview.net/forum?id=cUSNs8nGaV
- 35. Whitfield-Cargile C.M.[⊠], Chung H.C., Coleman M.C., Cohen N.D., Chamoun-Emanuelli A.M., Ivanov I., Goldsby J.S., Davidson L.A, **Gaynanova I.**, Ni Y. and Chapkin R.S. (2024) "Integrated analysis of gut metabolome, microbiome, and exfoliome data in an equine model of intestinal injury." *Microbiome*, Vol. 12, No. 74

Link: https://doi.org/10.1186/s40168-024-01785-1

34. Chun E., **Gaynanova I.**, Melanson E. and Lyden, K. (2024) "Pre- Versus Postmeal Sedentary Duration; Impact on Postprandial Glucose in Older Adults with Overweight or Obesity." *Journal for the Measurement of Physical Behaviour*, Vol. 7, No. 1.

Link: https://doi.org/10.1123/jmpb.2023-0032

33. Cheong, SM^{\boxtimes} and **Gaynanova I.** (2024) "Sensing the impact of extreme heat on physical activity and sleep." *Digital Health*, 10.

Link: https://doi.org/10.1177/20552076241241509

32. <u>Yi S.</u>, Wong R. and **Gaynanova I.**[⊠](2023) "Hierarchical nuclear norm penalization for multi-view data integration." *Biometrics*, Vol. 79, No. 4, 2933-2946.
Link: http://doi.org/10.1111/biom.13893

31. <u>Sergazinov R.</u>, Leroux A., Cui E., Crainiceanu C., Aurora R., Punjabi N. and **Gaynanova I.** (2023) "A case study of glucose levels during sleep using fast function on scalar regression inference." *Biometrics*, Vol. 79, No. 4, 3873-3882.

Link: https://doi.org/10.1111/biom.13878

30. <u>Sergazinov R.</u>[™], Armandpour R. and **Gaynanova I.** (2023) "Gluformer: Transformer-based personalized glucose forecasting with uncertainty quantification." *2023 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*.

Link: https://doi.org/10.1109/ICASSP49357.2023.10096419

29. Zhang Y. and **Gaynanova I.** (2022) 'Joint association and classification analysis of multi-view data." *Biometrics*, Vol. 78, No. 4, 1614-1625.

Link: https://doi.org/10.1111/biom.13536

28. <u>Yuan D.</u> and **Gaynanova I.**[⊠](2022) "Double-matched matrix decomposition for multi-view data." *Journal of Computational and Graphical Statistics*, Vol. 31, No. 4, 1114-1126.
Link:https://doi.org/10.1080/10618600.2022.2067860

- 27. Chung H.C., **Gaynanova I.** and Ni Y.[™](2022) "Phylogenetically informed Bayesian truncated copula graphical models for microbial association networks." *Annals of Applied Statistics*, Vol. 16, No. 4, 2437-2457. Link: https://doi.org/10.1214/21-AOAS1598
- 26. Schwenck J. \boxtimes , Punjabi N. and **Gaynanova I.** (2022) "bp: Blood Pressure analysis in R." *PLoS One*, Vol. 17, No. 9, e0268934.

Link: https://doi.org/10.1371/journal.pone.0268934

25. Aurora R. N. M. Gaynanova I., Patel P., and Punjabi N. M. (2022). Glucose profiles in obstructive sleep apnea and type 2 diabetes mellitus. Sleep Medicine, Vol. 95, 105-111
Link: https://doi.org/10.1016/j.sleep.2022.04.007

24. <u>Fernandes N.</u>, <u>Nhan, N.</u>, <u>Chun, E.</u>, Punjabi N. and **Gaynanova I.** (2022) "Open-source algorithm to calculate mean amplitude of glycemic excursions using short and long moving averages." *Journal of Diabetes Science and Technology,* Vol. 16, No. 2, 576-577.

Link: https://doi.org/10.1177/19322968211061165

23. **Gaynanova I.**[⊠], Punjabi N. and Crainiceanu C. (2022) "Modeling continuous glucose monitoring (CGM) data during sleep." *Biostatistics*, Vol. 23, No. 1, 223-239. Link: https://doi.org/10.1093/biostatistics/kxaa023

22. <u>Lapanowski A.</u> and **Gaynanova I.**[⊠](2021) "Compressing large-sample data for discriminant analysis." 2021 IEEE International Conference on Big Data (Big Data), 1068-1076.

Link: https://doi.org/10.1109/BigData52589.2021.9671676

- 21. <u>Huang M.</u>, Müller C. and **Gaynanova I.** (2021) "latentcor: An R package for estimating latent correlations from mixed data types." *Journal of Open Source Software*, Vol. 6, No. 65, 3634. Link: https://doi.org/10.21105/joss.03634
- 20. Risk B.+[™] and **Gaynanova I.**+ (2021) "Simultaneous non-Gaussian component analysis (SING) for data integration in neuroimaging." *Annals of Applied Statistics*, Vol. 15, No. 3, 1431-1454. Link: https://doi.org/10.1214/21-AOAS1466
- 19. <u>Yoon G.</u>, Müller C. and **Gaynanova I.**[⊠](2021) "Fast computation of latent correlations." *Journal of Computational and Graphical Statistics*, Vol. 30, No. 4, 1249-1256.

 Link: https://doi.org/10.1080/10618600.2021.1882468
- Solhjoo S., Punjabi N., Ivanescu A., Crainiceanu C., Gaynanova I., Wicken C., Buckenmaier C., and Haigney M. (2021) "Methadone destabilizes cardiac repolarization during sleep." Clinical Pharmacology & Therapeutics, Vol. 110, No. 4, 1066-1074.
 Link: https://doi.org/10.1002/cpt.2368
- 17. <u>Broll S.</u>, Urbanek J., <u>Buchanan D.</u>, <u>Chun E.</u>, Muschelli J., Punjabi N. and **Gaynanova I.** (2021) "Interpreting blood glucose data with R package iglu." *PLoS one*, Vol. 16, No. 4, e0248560. Link: https://doi.org/10.1371/journal.pone.0248560
- 16. Taylor N. Gaynanova I., Eschrich S., Welsh E., Garrett T., Beecher C., Sharma R., Koomen J., Smalley K., Messina J., Kanetsky P. (2020) "Metabolomics of primary cutaneous melanoma and matched adjacent extratumoral microenvironment." *PLoS one*, 15(10):e0240849. Link: https://doi.org/10.1371/journal.pone.0240849
- 15. <u>Yoon G.</u>, Carroll R. and **Gaynanova I.** (2020) "Sparse semiparametric canonical correlation analysis for data of mixed types." *Biometrika*, Vol. 107, No. 3, 609-625
 Link: https://doi.org/10.1093/biomet/asaa007
- 14. **Gaynanova I.** (2020) "Prediction and estimation consistency of sparse multi-class penalized optimal scoring." *Bernoulli*, Vol. 26, No. 1, 286-322.

 Link: https://projecteuclid.org/euclid.bj/1574758829
- 13. **Gaynanova I.** and Li G. (2019). "Structural learning and integrative decomposition of multi-view data." *Biometrics*, Vol. 75, No. 4, 1121-1132. Link: https://doi.org/10.1111/biom.13108
- 12. * Bien J., **Gaynanova I.**, Müller C. and Lederer J.[⊠](2019). "Prediction error bounds for linear regression with the TREX." *TEST*, Vol. 28, No. 2, 451-474. Link: https://doi.org/10.1007/s11749-018-0584-4
- 11. Yoon G., **Gaynanova I.** and Müller, C.[™](2019) "Microbial networks in SPRING Semi-parametric rankbased correlation and partial correlation estimation for quantitative microbiome data." *Frontiers in Genetics*, Vol. 10, 516.
 - Link: https://doi.org/10.3389/fgene.2019.00516
- 10. <u>Lapanowski A.</u> and **Gaynanova I.** (2019) "Sparse feature selection in kernel discriminant analysis via optimal scoring." *Proceedings of the 22nd International Conference on Artificial Intelligence and Statistics (AISTATS)*, PMLR 89, 1704-1713.
 - Link: http://proceedings.mlr.press/v89/lapanowski19a.html
- 9. Lederer J.[⊠], Lu Y. and **Gaynanova I.** (2019). "Oracle inequalities for high-dimensional prediction." *Bernoulli*, Vol. 25, No. 2, 1225-1255.
 - Link: https://projecteuclid.org/euclid.bj/1551862849

- 8. **Gaynanova I.** and <u>Wang T.</u> (2019) "Sparse quadratic classification rules via linear dimension reduction." *Journal of Multivariate Analysis*, Vol. 169, 278-299. Link: https://doi.org/10.1016/j.jmva.2018.09.011
- 7. **Gaynanova I.**[⊠], Urbanek J. and Punjabi N. (2018). "Letter to the Editor: Corrections of equations on glycemic variability and quality of glycemic control." *Diabetes Technology & Therapeutics*, Vol. 20, No. 4, 317.

Link: https://doi.org/10.1089/dia.2018.0057

- Li G. and Gaynanova I. (2018). "A general framework for association analysis of heterogeneous data."
 Annals of Applied Statistics, Vol. 12, No. 3, 1700-1726.
 Link: http://doi.org/10.1214/17-AOAS1127
- 5. * Bien J., **Gaynanova I.** Müller C. and Lederer J. (2018). "Non-convex global minimization and false discovery rate control for the TREX." *Journal of Computational and Graphical Statistics*, Vol. 27, No. 1, 23-33.

Link: https://doi.org/10.1080/10618600.2017.1341414

- 4. Hokamp J.[™], Leidy S., **Gaynanova I.**, Cianciolo R. and Nabity M. (2018) "Correlation of electrophoretic urine protein banding patterns with severity of renal damage in dogs with proteinuric chronic kidney disease." *Veterinary Clinical Pathology*, Vol. 47, No. 3, 424-434.

 Link: https://doi.org/10.1111/vcp.12648
- 3. **Gaynanova I.**[™], Booth J. and Wells M. (2017). "Penalized versus constrained generalized eigenvalue problems." *Journal of Computational and Graphical Statistics*, Vol. 26, No. 2, 379-387. Link: https://doi.org/10.1080/10618600.2016.1172017
- 2. **Gaynanova I.** Booth J. and Wells M. (2016). "Simultaneous sparse estimation of canonical vectors in the $p \gg n$ setting." *Journal of the American Statistical Association*, Vol. 111, No. 514, 696-706. Link: http://doi.org/10.1080/01621459.2015.1034318
- 1. **Gaynanova I.**[⊠] and Kolar M. (2015). "Optimal variable selection in multi-group sparse discriminant analysis." *Electronic Journal of Statistics*, Vol. 9, No. 2, 2007-2034. Link: http://doi.org/10.1214/15-EJS1064

Unrefereed Manuscripts and Other Written Products:

- 4. **Gaynanova I.** (2024) Public comment to FDA in response to "CDRH seeks public comment: Digital Health Technologies for Detecting Prediabetes and Undiagnosed Type 2 Diabetes." Docket No. FDA-2023-N-4853.
- 3. **Gaynanova I.**[™] (2022)"Digital biomarkers of glucose control reproducibility challenges and opportunities." *Biopharmaceutical Report*, Vol. 29, No. 1, 21-26.
- 2. **Gaynanova I.** (2015). "Estimation of sparse low-dimensional linear projections." Ph.D. Thesis, Cornell University.
- 1. **Gaynanova I.**, Booth J. and Wells M. (2013). "Supervised classification using sparse Fisher's LDA." Technical report, arXiv:1301.4976 [stat.ML].

Software

Mentored student and post-doctoral associate co-authors are underlined.

16. iglu: an R package for interpreting data from continuous glucose monitors (CGMs), available from Github and CRAN.

Authors (Most recent CRAN version 4.2.2): <u>Chun E.</u>, <u>Broll S.</u>, <u>Buchanan D.</u>, Muschelli J., <u>Fernandes N.</u> and others; **Gaynanova I.** (maintainer)

15. SmoothHOOI: an R package for fitting smooth Tucker decomposition, available from Github. Authors: Qian L., Gaynanova I.

14. fastfrechet: an R package for fast implementation of Frechet regression with distributional responses, available from GitHub.

Authors: Coulter A. (maintainer), Lee R. and Gaynanova I.

13. singR: an R package with the implementation of SING method (SImultaneous Non-Gaussian component analysis) for data integration in neroimaging

Authors: Wang L., Gaynanova I., Risk B.

12. bp: an R package for blood pressure analysis, available from Github Authors: Schwenck, J., **Gaynanova I.**

- 11. latentcor: an R package for estimating latent correlations from mixed data types, available from Github Authors: Huang M., Yoon G., Müller, C, Gaynanova I.
- 10. SLIDE: an R package for learning partially-shared structures from multi-view data, available from Github. Authors: Gaynanova I., Yuan D.
- 9. biClassify: an R package for binary classification using extensions of discriminant analysis, CRAN Authors: Lapanowski A., Gaynanova I.
- 8. Martin M., Buchanan D., Chun E., Bhat R., Cass S., Wang E., Senthil S. and Gaynanova I. (2021). irinagain/Awesome-CGM: Updated release with simulators and enhanced processing (Version v1.1.0). Zenodo. DOI: 10.5281/zenodo.4723654
- 7. SPRING: an R package for estimation of sparse microbial association networks using rank-based correlation, available from Github.

Authors: Yoon G., Gaynanova I., Müller, C.

6. sparseKOS: an R package for nonlinear binary classification using sparse kernel optimal scoring, available from Github.

Authors: Lapanowski A., Gaynanova I.

5. JACA: an R package for joint association and classification analysis of multi-view data, available from Github.

Authors: Zhang Y., Gaynanova I.

4. mixedCCA: an R package for semiparametric sparse canonical correlation analysis for data of mixed types (continuous/ binary/ zero-inflated), available from Github.

Authors: Yoon G., Gaynanova I.

3. DAP: an R package to perform discriminant analysis via projections, available from Github and CRAN. Authors: Wang T., **Gaynanova I.**

- 2. TREX: a Matlab package to perform sparse linear regression using TREX, available from Github. Authors: Müller C., Bien J., Gaynanova I., Combettes P.
- 1. MGSDA: an R package to perform sparse multi-group discriminant analysis, available from CRAN. Authors: Gaynanova I.

Funding Support

As PI or Co-PI:

• NIH R01HL172785 Gaynanova I. (PI) 06/2024 - 02/2029 New machine learning methods for extracting features from digital health data with applications to sleep apnea

Total awarded amount: \$1,780,503.00

- NSF CAREER Award DMS-2422478 (2044823 at TAMU) **Gaynanova I. (PI)** 06/2021 05/2026 Next-generation methods for statistical integration of high-dimensional disparate data sources Total awarded amount: \$400,000.00
- TAMU Seed Grant for Promoting Research Collaborations **Gaynanova I. (PI)** 06/2022 05/2023 Modifiable risk factors and interventions in diabetes Total awarded amount: \$10,000.
- TAMU Presidential Transformation Teaching Grant (PTTG) **Gaynanova I. (PI)** 01/2021 12/2022 Total awarded amount: \$20,000.00
- TAMU College of Science Gaynanova I. (PI) 10/2021 06/2022 Science Undergraduate Research Opportunities Program (SUROP)

 Total awarded amount: \$1,820.00 (support for 1 undergraduate student).
- TAMU Institute of Data Science Ni Y. (PI), Gaynanova I. (Co-PI) 07/2020 06/2022 Studying microbial interactions and host heterogeneity via data integration Total awarded amount: \$59,100.00 (50% of postdoctoral researcher support for 2 years)
- Johns Hopkins University, Subcontract Gaynanova I. (PI) 07/2019 06/2020 Statistical Analysis of CGM Data
 Total awarded amount: \$30,063.00
- NSF DMS-1712943 Gaynanova I. (PI) 07/2017 06/2020 Scalable methods for classification of high-dimensional heterogeneous data Total awarded amount: \$162,539.00

As Co-I/Other:

• NIH U24 DK122927 Spino C. (PI) 03/2023 - 12/2027 University of Michigan Data Coordinating Center for the Diabetic Foot Consortium

Role: Co-investigator, 10% effort starting 01/2024

- NSF CCF-1934904 Mallick B. (PI) 10/2019 09/2022
 HDR Tripods: Texas A&M Research Institute for Interdisciplinary Foundations of Data Science
 Role: Co-Investigator, 0% effort
- Delta Omega REDI, Texas A&M School of Public Health Taylor N. (PI) 06/2017 05/2018
 Integrative gene expression profiling of primary colorectal cancer and adjacent extratumoral environment
 Role: Co-Investigator, 0% effort

Presentations

Invited Presentations:

- 79. Invited lecture on "Wearable and Mobile Health" at Big Data Summer Institute (BDSI), Ann Arbor, MI, July 2025
- 78. TRICAP'25 Tensor and multiblock data analysis, Alesund, Norway, June 2025
- 77. Americal Statistical Association (ASA), section on Statistical Learning and Data Science (SLDS) webinar, virtual, April 2025
- 76. Test journal invited paper webinar, invited discussant, virtual, March 2025
- 75. ENAR, New Orleans, March 2025
- 74. BIRS (Banff International Research Station) Workshop, "Emerging Statistical Methods for Digital Health Data", Banff, Canada, February 2025
- 73. Applied Biostatistical Sciences (ABS) Network lecture series, virtual, December 2024
- 72. NIH NHLBI virtual workshop on "Heterogeneity and Sex/Gender Differences in Obstructive Sleep Apnea: Personalized Approaches to Diagnosis, Treatment, and Implementation", November 2024
- 71. Statistical Learning and Data Science Conference, Newport Beach, CA, November 2024
- 70. Caswell Diabetes Institute Metabolism, Obesity, Nutrition & Diabetes Symposium, Invited Roundtable Facilitator on "Using big data to innovate your science", Ann Arbor, MI, October 2024
- 69. Invited session, Joint Statistical Meetings, Portland, OR, August 2024
- 68. The Big Data Summer Institute's (BDSI) Concluding Symposium, Ann Arbor, MI, July 2024
- 67. U.S. Food and Drug Administration, Center for Drug Evaluation and Research, April 2024
- 66. ENAR, Baltimore, MD, March 2024
- 65. Pre-ENAR Digital Health Methods Workshop, Baltimore, MD, March 2024
- 64. Department of Statistics and Probability, Michigan State University, September 2023
- 63. Celebration of Statistics and Data Science, Cornell University, September 2023
- 62. Department of Data Science and Operations, University of Southern California Marshall School of Business, March 2023
- 61. Department of Biostatistics, University of Washington, November 2022

- 60. Invited session, Joint Statistical Meetings, Washington DC, August 2022
- 59. TRICAP'22 Tensor and multiblock data analysis, Auberge Des Sequins, Luberon, France, June 2022
- 58. Department of Mathematics and Statistics, University of Massachusetts Amherst, May 2022
- 57. ENAR, Houston, TX, March 2022
- 56. Center for Approximation and Mathematical Data Analytics (CAMDA) seminar, Texas A&M University, March 2022
- 55. Department of Biostatistics, Virginia Commonwealth University, virtual due to COVID-19, December 2021
- 54. Missing values and Causal Inference seminar, joint between Ecole Polytechnique and INRIA Saclay, France, virtual due to COVID-19, November 2021
- 53. TAMIDS workshop on UQ and machine learning, Texas A&M University, November 2021
- 52. Department of Statistics, Penn State University, September 2021
- 51. ICSA Applied Statistics Symposium, virtual due to COVID-19, September 2021
- 50. Department of Statistics, University of Washington, virtual due to COVID-19, May 2021
- 49. Data & Science podcast with Glen Wright Colopy, April 2021
- 48. Transformational Teaching and Learning Conference, Texas A&M University, virtual due to COVID-19, April 2021
- 47. Pod of Asclepius, The Healthcare Technology Podcast sponsored by ASA, December 2020
- 46. Department of Mathematics, Statistics and Computer Science, the University of Illinois at Chicago, virtual due to COVID-19, October 2020
- 45. Department of Biostatistics, University of North Carolina, Chapel Hill, virtual due to COVID-19, August 2020
- 44. Invited session, Joint Statistical Meetings, virtual due to COVID-19, August 2020
- 43. 4th International Conference on Econometrics and Statistics (EcoSta 2020), Seoul, South Korea, July 2020 (canceled due to COVID-19)
- 42. Department of Biostatistics, University of Washington, May 2020 (canceled due to COVID-19)
- 41. Department of Statistics, University of Washington, May 2020 (canceled due to COVID-19)
- 40. Department of Biostatistics, Emory University, April 2020 (canceled due to COVID-19)
- 39. Banff International Research Station, workshop on the "Use of Wearable and Implantable Devices in Health Research", Banff, Canada, February 2020
- 38. Department of Statistics, Oregon State University, February 2020
- 37. The Gatsby Computational Neuroscience Unit, University College London, UK, December 2019
- 36. The Fourth Workshop on Higher-Order Asymptotics and Post-Selection Inference (WHOA-PSI), St. Louis, MO, August 2019
- 35. Topic-Contributed session, Joint Statistical Meetings, Denver, CO, July 2019
- 34. ICSA Applied Statistics Symposium, Raleigh, NC, June 2019
- 33. Econometrics and Statistics Colloquium, Booth School of Business, University of Chicago, May 2019
- 32. Department of Biostatistics, University of Michigan, April 2019

- 31. Big Data Working group, College of Veterinary Medicine, Texas A&M University, March 2019
- 30. Friday Science Seminar, College of Science, Texas A&M University, February 2019
- 29. Department of Biostatistics, University of Minnesota, February 2019
- 28. 11th International Conference of the ERCIM WG on Computational and Methodological Statistics (CM Statistics 2018), Pisa, Italy, December 2018
- 27. Bioinformatics and Cancer Symposium, Texas A&M University, September 2018
- 26. Topic-Contributed session, Joint Statistical Meetings, Vancouver, Canada, August 2018
- 25. IMS Asia Pacific Rim Meeting 2018, Singapore, June 2018
- 24. ICSA Applied Statistics Symposium, New Brunswick, NJ, June 2018
- 23. Statistical Learning and Data Science Conference, New York, NY, June 2018
- 22. Department of Statistics, Indiana University, April 2018
- 21. SAMSI Operator Splitting Workshop, Research Triangle Park, NC, March 2018
- 20. Department of Biostatistics, UT MD Anderson Cancer Center, March 2018
- 19. 10th International Conference of the ERCIM WG on Computational and Methodological Statistics (CM Statistics 2017), London, UK, December 2017
- 18. Department of Statistical Science, Baylor University, November 2017
- 17. Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, September 2017
- 16. Data-Driven Model Reduction Workshop, Texas A&M University, April 2017
- 15. Conference of Texas Statisticians (COTS), Dallas, TX, March 2017
- 14. ENAR, Washington DC, March 2017
- 13. 9th International Conference of the ERCIM WG on Computational and Methodological Statistics (CM Statistics 2016), Seville, Spain, December 2016
- 12. Bio-seminar, Department of Electrical and Computer Engineering, Texas A&M University, October 2016
- 11. Topic-Contributed session, Joint Statistical Meetings, Chicago, IL, August 2016
- 10. Southern Regional Council on Statistics Summer Research Conference, Bentonville, AR, June 2016
- 9. Structured Multivariate Data Workshop, Texas A&M University, January 2016
- 8. Department of Statistics, Rice University, February 2015
- 7. Department of Statistical Science, Cornell University, February 2015
- 6. Department of Statistics, Indiana University, January 2015
- 5. Department of Statistics, Texas A&M University, January 2015
- 4. Department of Mathematical and Statistical Sciences, University of Colorado, Denver, January 2015
- 3. Department of Statistics and Actuarial Science, University of Iowa, January 2015
- 2. Department of Statistics, University of California, Davis, January 2015
- 1. Department of Biostatistics, University of Iowa, December 2014

Contributed Presentations:

- 14. Poster, R/Medicine 2021, virtual due to COVID-19, August 2021
- 13. Presentation, ENAR, virtual due to COVID-19, March 2021
- 12. Poster, ENAR, Philadelphia, PA, March 2019
- 11. IMS New Researchers Conference, Baltimore, MD, August 2017
- 10. Poster, International Conference on Machine Learning in New York City, NY, June 2016
- 9. Contributed session, Joint Statistical Meetings in Boston, MA, August 2014
- 8. Statistics Student Seminar, Cornell University, April 2014
- 7. Poster, SAMSI LDHD Workshop, February 2014
- 6. Contributed session, Joint Statistical Meetings in Montreal, Canada, August 2013
- 5. Poster, SAMSI LDHD Summer School, August 2013
- 4. Statistics Student Seminar, Cornell University, March 2013
- 3. Contributed session, Joint Statistical Meetings in San Diego, CA, August 2012
- 2. Cross-Campus Collaborative Colloquium, Cornell University, December 2011
- 1. Statistics Student Seminar, Cornell University, September 2011

Teaching Experience

Primary instructor (at University of Michigan):

BIOS 699: Analysis of Biostatistical Investigations

Winter 2024/2025

Identifying and solving design and data analysis problems using a wide range of biostatistical methods. Written and oral reports on intermediate and final results of case studies required.

Primary instructor (at Texas A&M University):

STAT 211: Principles of Statistics I

Fall 2015/2016/2017, Spring 2016

Calculus-based introduction to probability and probability distributions; sampling and descriptive measures; inference and hypothesis testing; analysis of variance; linear regression.

STAT 489: Structured Research Experiences in Statistics

Spring 2022

Research project based on simulation studies in statistics; version control; reproducible computations; simulation study design; publication-quality figures; scientific writing.

STAT 610: Distribution Theory

Fall 2017/2018/2019/2020/2021/2022

Graduate-level introduction to probability theory; distributions and expectations of random variables, transformations of random variables and order statistics; generating functions and basic limit concepts.

STAT 689/STAT 695: Statistical Learning with Sparsity

Spring 2017/2020

Graduate-level class covering penalized empirical loss minimization methods with sparsity-inducing penalties. The course also includes brief introduction to convex optimization and duality.

STAT 600: Computational Statistics

Spring 2018, Fall 2019/2020/2021/2022

Table 1: Summary of teaching evaluations at Texas A&M University, Q: On the whole, this was a good instructor. Scale 1(Strongly Disagree) to 5(Strongly Agree).

Course	Semester	Total class size	Mean (median) response
STAT 211	Fall 2015	77	4.68 (5.00)
STAT 211	Spring 2016	77	4.21 (4.00)
STAT 211	Fall 2016	97	4.57 (5.00)
STAT 211	Fall 2017	97	4.44 (5.00)
STAT 489	Spring 2022	8	5.00 (5.00)
STAT 610	Fall 2017	35	4.82 (5.00)
STAT 610	Fall 2018	34	5.00 (5.00)
STAT 610	Fall 2019	39	4.54 (5.00)
STAT 610	Fall 2020	33	4.80 (5.00)
STAT 610	Fall 2021	34	4.87 (5.00)
STAT 610	Fall 2022	45	4.57 (5.00)
STAT 600	Spring 2019	7	4.84 (5.00)
STAT 600	Fall 2019	31	4.73 (5.00)
STAT 600	Fall 2020	12	4.88 (5.00)
STAT 600	Fall 2021	20	5.00 (5.00)
STAT 600	Fall 2022	16	4.90 (5.00)
STAT 618	Spring 2023	8	5.00 (5.00)
STAT 689	Spring 2017	12	5.00 (5.00)
STAT 695	Spring 2020	15	5.00 (5.00)

Graduate-level course on computational statistics and optimization. Topics include version control with Git and Github, code vectorization and profiling, writing R packages, introduction to convex optimization and optimization algorithms.

STAT 618: Statistical aspects of Machine Learning II

Spring 2023

Graduate-level course on statistical machine learning, a continuation of STAT 616. Topics include advanced material on statistical learning with sparsity, low-rank matrix decompositions, tensor methods, deep learning, and non-euclidean machine learning.

Primary instructor (at Cornell University):

ILRST 2100: Introductory Statistics

Winter 2013, 2014, 2015

Non-calculus-based introduction to statistics; sampling and descriptive measures; inference and hypothesis testing; analysis of variance; linear regression.

Teaching Assistant (at Cornell University):

ILRST 2100: Introductory Statistics

Summer 2013, 2014

Non-calculus-based introduction to statistics; sampling and descriptive measures; inference and hypothesis testing; analysis of variance; linear regression.

ENGRD 2700: Basic Engineering Probability and Statistics (recitation leader)

Fall 2013

ference and hypothesis testing; analysis of variance; linear regression.

Calculus-based introduction to probability and probability distributions; sampling and descriptive measures; in-

MATH 4720: Statistics Spring 2015

Introduction to mathematical statistics based in calculus, linear algebra, and probability theory; inference for proportions, inference for means, contingency tables and linear regression.

BTRY 6010: Statistical Methods I (TA/Lab instructor)

Fall 2009, 2010, 2014

Graduate level introduction to statistical methods for analyzing data; descriptive statistics and data visualization; analysis of variance; linear regression.

BTRY 6020: Statistical Methods II (TA/Lab instructor)

Spring 2010, 2011, 2012

Continuation of BTRY 6010. Emphasizes the use of multiple regression analysis, experimental design and generalized linear models.

Mentoring

Postdoctoral Researchers

1. Junyoung Park 09/2024 - present

2. Sangyoon Yi (with Raymond Wong) 09/2020 - 08/2022

HDR Tripods: Texas A&M Research Institute for Interdisciplinary Foundations of Data Science

3. Hee Cheol Chung (with Yang Ni)

TAMU Institute of Data Science Postdoctoral Project Program

06/2020 - 06/2022

4. Grace Yoon
Postdoctoral Trainee of DHHS-NIH National Cancer Institute T32CA090301 (PI: R. Carroll), Gaynanova is

the Statistics Mentor

PhD Committee Chair

At University of Michigan:

1. Leyuan Qian	2028(expected)
2. Edward Shao	2028(expected)

At Texas A&M University:

3.	Alexander Coulter	2026 (expected)
4.	Lei Wang	2026 (expected)
5.	Renat Sergazinov	2024
6.	Mingze Huang (ECON)	2022
7.	Dongbang Yuan	2022
8.	Alex Lapanowski	2020
9.	Yunfeng Zhang	2020
10.	Tianying Wang (co-chair with Raymond Carroll)	2018

PhD Committee Member

At University of Michigan:

1. JungMin Lee (chair Jenna Wiens, Major: Computer Science and Engineering)	2026 (expected)
2. M Crystal Wen (chair Josh Welch, Major: Bioinformatics)	2027 (expected)
3. Qingzhi Liu (chair Gen Li, Major: Biostatistics)	2025 (expected)
4. Mukai Wang (chair Gen Li, Major: Biostatistics)	2026 (expected)

At Texas A&M University:

5. Carson James (chair Jesus Arroyo, Major: Statistics)	2026 (expected)
6. Connor Brubacker (chair Scott Bruce, Major: Statistics)	2026 (expected)
7. Jian Yan (chair Xianyang Zhang, Major: Statistics)	2023
8. Junsouk Choi (chair Yang Ni, Major: Statistic)	2023
9. Krystin Pantoja (chair David Jones, Major: Statistics)	2022
10. Jiayi Wang (chair Raymond Wong, Major: Statistics)	2022
11. Jianling Wang (chair James Caverlee, Major: Computer Science and Engineering)	2022
12. Nida Obatake (chair Anne Shiu, Major: Mathematics)	2021
13. Allyson Souris (chair Anirban Bhattacharya, Major: Statistics)	2020
14. Sangyoon Yi (chair Xianyang Zhang, Major: Statistics)	2020

MS Committee Chair

At Texas A&M University:

1. Mingze Huang	2022
2. John Schwenck	2021
3. Rucha Bhat	2021
4. Shaun Cass	2021
5. Matthew Goldsmith	2021
6. Neil Kirkpatrick	2021

MS Committee Member

At Texas A&M University:

1. Eric Riley (STAT)	2019
2. Andrea Barton (MATH)	2023
3. Polina Churilova (PETE)	2023
4. Aaron Knodell (CPSC)	2019
5. Haley Pichler (MATH)	2019
6. Jung Sim Hyun (MATH)	2019

Graduate Student Research Assistantship (GSRA)

At University of Michigan:

1. Leyuan Qian, PhD, Biostatistics

Fall 2024 - present

- 2. Edward Shao, PhD, Biostatistics
- 3. Neo Kok, MS, Health Data Science
- 4. Walter Williamson, MS, Biostatistics

Summer 2024 - present

Fall 2024 - present

Winter 2025

Other Graduate Student Research

At University of Michigan:

- 1. Sylvan Xu, MS, Biostatistics (with Gen Li, Sunway Trust scholarship Summer 24) Summer 2024/Fall 24/Winter 2025
- 2. Walter Williamson, MS, Biostatistics (IHPI scholarship Summer 24) Summer 2024/Fall 24/Winter 2025
- 3. Charlotte Xu, MS, Biostatistics

Winter 2024/Fall 2024/Winter 2025

Undergraduate Student Research

At University of Michigan:

1. Samuel Tan (STAT), Honors Thesis Winter 2025	Fall 2024/Winter 2025
2. Owen Yoo (STAT)	Winter 2025
3. Sophia Han (STAT)	Winter 2025

At Texas A&M University:

4.	Nathaniel Fernandes (ENGE)	08/2020 - 08/2021; Spring 2023
5.	Akhil Cutinha (CPSC)	Fall 2022
6.	Urjeet Shrestha (APMS)	Fall 2022
7.	Nicholas Kasman (ENGE)	Spring 2022, Fall 2022, Spring 2023
8.	Elizabeth Chun (BMCB/STAT)	01/2020 - 05/2023
9.	Melinda Chen (STAT), joint mentoring with Jesus Arroyo	Summer 2022
10.	Wesley Halstead (STAT), joint mentoring with Jesus Arroyo	Summer 2022
11.	Sina Mokhtar (STAT)	Summer 2022
12.	Valerie Espinosa (STAT)	Summer 2022
13.	Devon Maywald (APMS)	06/2021 - 08/2022
14.	Yixin Zhang (STAT)	Summer 2021
15.	Kyle Schichl (STAT)	Summer 2021
16.	Zengxiaoran Kang (STAT)	Summer 2021
17.	Benjamin Adams (STAT)	Summer 2021
18.	Jada Lawson (STAT)	Summer 2021
19.	Mayra Hernandez (STAT)	Summer 2021
20.	Johnathan Shih (STAT)	Spring 2021
21.	Jung Hoon Seo (CPSC)	Spring 2021
22.	Marielle Hicban (BMEN)	06/2020 - 05/2021
23.	David Buchanan (STAT)	01/2020 - 05/2021
24.	Ashok Meyyappan (SPSC)	Fall 2020
25.	Nhan Nguyen (ENGE)	06/2020 - 12/2020
26.	Pratik Patel (STAT)	06/2020 - 12/2020
27.	Mary Martin (STAT)	01/2020 - 12/2020
28.	Sangaman Senthil (INEN)	Spring 2020

29. Eric Wang (ENGE)30. Steven Broll (STAT)

Spring 2020

06/2019 - 08/2020

Academic advising

At University of Michigan:

- Zhuoxin Fu (MS), Yize Hao (PhD), Neo Kok (MS), Anqi Li (MS), Nandhana Nambi (MS), Leyuan Qian (PhD), Medha Rao (MS), Haoran Tang (MS), Xinyuan Zhang (MS)

 2024/2025
- Zhuoxin Fu (MS), Anqi Li (MS), Jianxiong Chen (MS), Haoran Tang (MS) 2023/2024

Other formal mentoring

At the University of Michigan:

Mentorship committee for Jean Morrison, Assistant Professor in Biostatistics
 Mentorship committee for Walter Dempsey, Assistant Professor in Biostatistics
 2024-2024
 2023-2024

At Texas A&M University:

- Mentorship committee for Nilanjana Laha and Jesus Arroyo, Assistant Professors in Statistics 2022-2023
- Brittany Segundo

 O1/2019 05/2023

 Dr. Gaynanova is a teaching mentor through the Academy for Future Faculty (AFF)

Departmental and University Service

At University of Michigan:

Department of Biostatistics Committees:

Student Awards Committee	2025/2026
Retreat Planning & 2030 Visioning Committee	2024/2025
Faculty Search Committee	2024/2025
Candidacy Committee	2023/2024
Diversity, Equity and Inclusion Committee	2023/2024
• Biostatistics Faculty Retreat 2023 working groups on AI in Research and New student cohort	2023

School of Public Health Committees:

• M-PACT Search Committee 2024/2025

Other:

• Reviewer for Student Abstract Competition, IDEAS - Combating Infectious Diseases initiative 2023

At Texas A&M University:

Department of Statistics Committees:

Faculty Advisory Committee	2022/2023
• Promotion & Tenure Committee (Elected member)	01/2022 - 08/2023
• SOAR subcommittees (Faculty workgroup, Research	Bio workgroup) 2021
Graduate Committee	2019/2020; 2020/2021; 2021/2022; 2022/2023
• Faculty Evaluation and Promotion Guidelines Comm	nittee 2020
Hiring Committee	2018/2019; 2020/2021
Colloquium Chair	05/2018 - 12/2019
Undergraduate Committee	2017/2018

Panelist:

TAMU Workshop on NSF CAREER and other Young Investigator awards	11/2021
3rd Annual TX-LA Undergraduate Mathematics conference	10/2019
TAMU College of Science, Lunch and Learn series	09/2019
• TAMU Symposium for Faculty, Staff, Graduate Students and PostDocs in the Sciences	02/2017
TAMU AWM Chapter Panel "Career in Mathematics"	03/2016

Other:

•	TASTE (Take a Scientist to Lunch) College of Science Program	04/2022
•	Faculty advisor for Statistical Learning Journal Club, Department of Statistics	2019 - 2020
•	Friday Science Seminar, College of Science, Texas A&M University	02/2019

At Cornell University:

President, STATS graduate student organization	11/2013 - 05/2015
Organiser, Statistics Student Seminars	08/2011 - 12/2013

Professional Activities

Editorial service:

Associate Editor, Annals of Applied Statistics	2024 - present
Associate Editor, Biometrika	2023 - present
• Associate Editor, Journal of the American Statistical Association - Theory & Methods	2023 - present
Associate Editor, Data Science in Science	2021 - present
Associate Editor, Journal of Computational and Graphical Statistics	2018 - 2022

Journal refereeing:

- Annals of Applied Statistics
- Bernoulli
- Bioinformatics
- Biometrics
- Biometrika

- Computational Statistics
- Communications Medicine
- Data Science in Science
- Diabetes Technology and Therapeutics
- Electronic Journal of Statistics
- Journal of the American Statistical Association
- Journal of Computational and Graphical Statistics
- Journal of Machine Learning Research
- Journal of Multivariate Analysis
- IEEE Transactions on Network Science and Engineering
- Nature Medicine
- PLOS One
- R journal
- · Statistical Analysis and Data Mining
- Statistical Modeling: an International Journal
- SoftwareX
- Stat
- Statistics in Biosciences
- Statistics in Medicine
- Statistics & Probability Letters
- Statistica Sinica
- Technometrics
- TEST

Conference refereeing:

•	NIPS (Neural Information Processing Systems)	2020
•	AISTATS (Artificial Intelligence and Statistics)	2020

Book proposals refereeing:

• Springer	2018
CRC/Chapman & Hall	2017, 2018
• Wiley	2017
MacMillan Education	2015

Grant review panels:

 2024 Trans-Omics for Precision Medicine (TOPMed) Fellowship 	2025
• PCORI	2023
• NIH, Small Business: Computational, Modeling, and Biodata Management – MCST	2022
• NSF	2021, 2024
Joint NSF/NIH panel	2016

External reviews:

• External reviewer for 1 case of promotion from Assistant to Associate Professor with tenure 2025

•	External reviewer for 1 case of promotion from Assistant to Associate Professor with tenure	2023
•	External reviewer for 1 case of promotion from Assistant to Associate Professor with tenure	2022

Elected Positions:

- Program Chair-Elect 2024, Program Chair 2025, ASA section on Statistical Learning and Data Science (SLDS)

 2023-2025
- President, Southeast Texas Chapter of ASA (SETCASA)
 Main activity: led, coordinated and judged SETCASA annual poster competition
- Wain activity: led, coordinated and judged SETCASA annual poster competition
 Vice-president, Southeast Texas Chapter of ASA (SETCASA)
 Main activity: co-organized and judged SETCASA annual poster competition

Professional Committees Chair:

Chair of ASA SLDS Student Paper Award 2021 Committee	2020/2021
• Co-chair (chair Genevera Allen) of ASA SLDS Student Paper Award 2020 Committee	2019/2020

Professional Committees Member:

ASA SLDS Breiman Award 2022 Committee	2021/2022
SLDS conference Student Paper Award Committee	2020
ASA SLDS JSM 2019 Poster Competition Committee	2019
ASA SLDS Student Paper Award 2019 Committee	2018/2019
COTS (Conference of Texas Statisticians) Poster Competition Committee	2017
ASA SCS John M. Chambers Statistical Software Award Committee	2015/2016

Professional Panels:

•	ASA CFR Webinar: Peer Advice for Statisticians: Writing Your First NSF Proposal	11/2023
•	NISS Fall 2021 Virtual Academic Career Fair; moderator	09/2021
•	NISS Fall 2020 Virtual Academic Career Fair; presenter	12/2020

Conference Program Committees:

- JSM 2025, Statistical Learning and Data Science section representative (roundtable organization for JSM 2024)
- Conference on Statistical Learning and Data Science (SLDS) 2024 2024
- Statistical Methods for High-Dimensional Complex Data, in honor of Dr. Raymond Carroll 2024
- 13th International Conference of the ERCIM WG on Computational and Methodological Statistics (CM Statistics 2020) in London, UK 2020
- ENAR 2019, Statistical Learning and Data Science section representative 2019

Sessions Organized:

- Invited Session at ENAR: "Quantile and Distributional Approaches in mHealth"
 103/2025
 Invited Session at SLDS 24 conference: "Statistical and machine learning methods for data from wearable
 - and mobile devices"

 Statistical and machine learning methods for data from wearable

 11/2024

- Invited Session at Joint Statistical Meetings: "New frontiers in data integration" 08/2024
- Invited Session at CM Statistics in London, UK: "Statistical methods for time-varying multivariate data" 12/2019
- Topic-Contributed Session at Joint Statistical Meetings: "Integrative approaches for statistical analysis of data from multiple sources"
 08/2019
- Invited Session at Joint Statistical Meetings: "Discovering homology in multi-view data: new statistical methods for data integration"
 08/2018
- Topic-Contributed Session at Joint Statistical Meetings: "Exploiting Low-Dimensional Structures: Recent Advances of Statistical Learning Methods in Genetics and Genomics"
 08/2016

Sessions Chaired:

Joint Statistical Meetings, virtual	08/2021
Joint Statistical Meetings, virtual	08/2020
CM Statistics, London, UK	12/2019
Joint Statistical Meetings, Denver, CO	07/2019
• ENAR, Philadelphia, PA	03/2019
CM Statistics, Pisa, Italy	12/2018
Joint Statistical Meetings, Vancouver, Canada	08/2018
IMS Asian Pacific Rim Conference, Singapore	06/2018

Membership:

American Statistical Association (ASA)	since 2011
• Institute of Mathematical Statistics (IMS)	since 2012
• ENAR	since 2015

Other:

• Docent at JSM in Boston 08/2014